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**Amendments to the Claims**

The following listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (canceled)
2. (currently amended) A multiple die semiconductor assembly comprising:
  - a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;
  - a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad;
  - an intermediate substrate positioned between said first semiconductor die and said second semiconductor die such that a first surface of said intermediate substrate faces said first semiconductor die and such that a second surface of said intermediate substrate faces said second semiconductor die, wherein
    - said intermediate substrate defines a passage there through and includes a network of conductive contacts formed thereon, and
    - one of said first semiconductor die and said second semiconductor die is positioned such that said conductive bond pad on one of said first and second active surfaces is aligned with said passage; and
    - at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies, wherein a thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of said first semiconductor die, wherein said respective thickness dimensions of said decoupling capacitor and said first semiconductor die are oriented perpendicular to said first surface of said intermediate substrate.
3. (canceled)
4. (canceled)

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5. (canceled)

6. (currently amended) A multiple die semiconductor assembly comprising:

a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;

a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad;

an intermediate substrate positioned between said first active surface of said first semiconductor die and said second active surface of said second semiconductor die such that a first surface of said intermediate substrate faces said first active surface and such that a second surface of said intermediate substrate faces said second active surface, wherein

said first semiconductor die is electrically coupled to said intermediate substrate by at least one topographic contact extending from said first active surface to said first surface of said intermediate substrate,

said intermediate substrate defines a passage there through and includes a network of conductive contacts formed thereon,

said second semiconductor die is secured to said second surface of said intermediate substrate such that said conductive bond pad of said second semiconductor die is aligned with said passage, and

said second semiconductor die is electrically coupled to said intermediate substrate by at least one conductive line extending from said conductive bond pad of said second semiconductor die through said passage defined in said intermediate substrate and to a conductive contact on said first surface of said intermediate substrate; and

at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies, wherein a thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of a topographic contact extending between said first surface of said intermediate substrate and said first active surface of said first semiconductor die, wherein said respective thickness dimensions of said decoupling capacitor

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and said topographic contact are oriented perpendicular to said first surface of said intermediate substrate.

7. (previously presented) A multiple die semiconductor assembly comprising:

a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;

a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad;

an intermediate substrate positioned between said second semiconductor die and said first active surface of said first semiconductor die such that a first surface of said intermediate substrate faces said first active surface and such that a second surface of said intermediate substrate faces said second semiconductor die, wherein

said intermediate substrate defines a passage there through,

said first semiconductor die is secured to said first surface of said intermediate substrate such that said conductive bond pad of said first semiconductor die is aligned with said passage, and

said first semiconductor die is electrically coupled to said intermediate substrate by at least one conductive line extending from said conductive bond pad of said first semiconductor die through said passage defined in said intermediate substrate and to a conductive contact on said second surface of said intermediate substrate;

an additional substrate positioned such that a first surface of said additional substrate faces said second active surface of said second semiconductor die, wherein

said additional substrate defines an additional passage there through,

said second semiconductor die is secured to said first surface of said additional substrate such that said conductive bond pad of said second semiconductor die is aligned with said additional passage, and

said second semiconductor die is electrically coupled to said additional substrate by at least one conductive line extending from said conductive bond pad of said second semiconductor die through said additional passage defined in said

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additional substrate and to a conductive contact on a second surface of said additional substrate; and

at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies, wherein a thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of said first semiconductor die, wherein said respective thickness dimensions of said decoupling capacitor and said first semiconductor die are oriented perpendicular to said first surface of said intermediate substrate.

8. (previously presented) A multiple die semiconductor assembly comprising:

a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;

a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad; and

an intermediate substrate positioned between said first active surface of said first semiconductor die and said second active surface of said second semiconductor die such that a first surface of said intermediate substrate faces said first active surface and such that a second surface of said intermediate substrate faces said second active surface, wherein

said intermediate substrate includes a network of conductive contacts formed thereon,

said first semiconductor die is electrically coupled to said intermediate substrate by at least one topographic contact extending from said first active surface to said first surface of said intermediate substrate, and

said second semiconductor die is electrically coupled to said intermediate substrate by at least one topographic contact extending from said second active surface to said second surface of said intermediate substrate,

said assembly further comprises at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies, and

a thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of said topographic contact extending

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from said first active surface to said first surface of said intermediate substrate, said respective thickness dimensions of said decoupling capacitor and said first semiconductor die being oriented perpendicular to said first surface of said intermediate substrate.

9-24. (canceled)

25. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein said first semiconductor die comprises a flip chip arranged relative to said intermediate substrate such that said conductive bond pads included in said first active surface are aligned with conductive contacts on said first surface of said intermediate substrate.

26. (previously presented) A multiple die semiconductor assembly as claimed in claim 25 6 wherein said multiple die semiconductor assembly further comprises topographic contacts extending between said conductive bond pads of said first active surface and said conductive contacts of said first surface of said intermediate substrate.

27. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein said second semiconductor die comprises a flip chip arranged relative to said intermediate substrate such that said conductive bond pads included in said second active surface are aligned with a conductive contact on said second surface of said intermediate substrate.

28. (original) A multiple die semiconductor assembly as claimed in claim 27 wherein said multiple die semiconductor assembly further comprises topographic contacts extending between said conductive bond pads of said second active surface and said conductive contacts of said second surface of said intermediate substrate.

29. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein said first semiconductor die comprises a stacked chip secured to said first surface of said

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intermediate substrate such that said conductive bond pads on said first active surface are aligned with said passage.

30. (original) A multiple die semiconductor assembly as claimed in claim 29 wherein said multiple die semiconductor assembly further comprises conductive lines extending from said conductive bond pads on said first active surface to conductive contacts on said second surface of said intermediate substrate.

31. (previously presented) A multiple die semiconductor assembly as claimed in claim 6 wherein said second semiconductor die comprises a stacked chip secured to said second surface of said intermediate substrate such that said conductive bond pad on said second active surface is aligned with said passage.

32. (original) A multiple die semiconductor assembly as claimed in claim 31 wherein said multiple die semiconductor assembly further comprises conductive lines extending from said conductive bond pads on said second active surface to conductive contacts on said first surface of said intermediate substrate.

33. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein:

said first semiconductor die is electrically coupled to said intermediate substrate; and  
said second semiconductor die is electrically coupled to said intermediate substrate.

34. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein said first semiconductor die is electrically coupled to said second semiconductor die.

35. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein:

said first semiconductor die is electrically coupled to said intermediate substrate by at least one conductive line extending from said conductive bond pad of said first semiconductor

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die through said passage defined in said intermediate substrate and to said second surface of said intermediate substrate.

36. (previously presented) A multiple die semiconductor assembly as claimed in claim 6 wherein:

said second semiconductor die is electrically coupled to said intermediate substrate by at least one conductive line extending from said conductive bond pad of said second semiconductor die through said passage defined in said intermediate substrate and to said first surface of said intermediate substrate.

37-46. (canceled)

47. (original) A multiple die semiconductor assembly as claimed in claim 6 wherein:

said assembly comprises a pair of decoupling capacitors mounted to said first surface of said intermediate substrate; and

said first semiconductor die is positioned between said pair of decoupling capacitors relative to said first surface of said intermediate substrate.

48. (canceled)

49. (previously presented) A multiple die semiconductor assembly comprising:

a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;

a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad;

an intermediate substrate positioned between said second semiconductor die and said first active surface of said first semiconductor die such that a first surface of said intermediate substrate faces said first active surface and such that a second surface of said intermediate substrate faces said second semiconductor die, wherein said intermediate substrate defines a passage there through, said first semiconductor die is secured to said first surface of said

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intermediate substrate such that said conductive bond pad of said first semiconductor die is aligned with said passage, and said first semiconductor die is electrically coupled to said intermediate substrate by at least one conductive line extending from said conductive bond pad of said first semiconductor die through said passage defined in said intermediate substrate and to a conductive contact on said second surface of said intermediate substrate;

an additional substrate positioned such that a first surface of said additional substrate faces said second active surface of said second semiconductor die, wherein said additional substrate defines an additional passage there through, said second semiconductor die is secured to said first surface of said additional substrate such that said conductive bond pad of said second semiconductor die is aligned with said additional passage, and said second semiconductor die is electrically coupled to said additional substrate by at least one conductive line extending from said conductive bond pad of said second semiconductor die through said additional passage defined in said additional substrate and to a conductive contact on a second surface of said additional substrate;

at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies; and

a third substrate positioned such that a first surface of said third substrate faces said second surface of said additional substrate, wherein:

said additional substrate is electrically coupled to said third substrate by at least one topographic contact extending from said second surface of said additional substrate to a first surface of said third substrate,

said decoupling capacitor is mounted to said first surface of said third substrate, and

a thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of said topographic contact extending from said second surface of said additional substrate to a first surface of said third substrate, said respective thickness dimensions of said decoupling capacitor and said topographic contact being oriented perpendicular to said second surface of said additional substrate.



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50. (previously presented) A multiple die semiconductor assembly comprising:

a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;

a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad;

an intermediate substrate positioned between said second semiconductor die and said first active surface of said first semiconductor die such that a first surface of said intermediate substrate faces said first active surface and such that a second surface of said intermediate substrate faces said second semiconductor die, wherein said intermediate substrate defines a passage there through, said first semiconductor die is secured to said first surface of said intermediate substrate such that said conductive bond pad of said first semiconductor die is aligned with said passage, and said first semiconductor die is electrically coupled to said intermediate substrate by at least one conductive line extending from said conductive bond pad of said first semiconductor die through said passage defined in said intermediate substrate and to a conductive contact on said second surface of said intermediate substrate;

an additional substrate positioned such that a first surface of said additional substrate faces said second active surface of said second semiconductor die, wherein said additional substrate defines an additional passage there through, said second semiconductor die is secured to said first surface of said additional substrate such that said conductive bond pad of said second semiconductor die is aligned with said additional passage, and said second semiconductor die is electrically coupled to said additional substrate by at least one conductive line extending from said conductive bond pad of said second semiconductor die through said additional passage defined in said additional substrate and to a conductive contact on a second surface of said additional substrate;

at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies; and

a third substrate positioned such that a first surface of said intermediate substrate faces a second surface of said third substrate, wherein

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said intermediate substrate is electrically coupled to said third substrate by at least one topographic contact extending from said second surface of said third substrate to said first surface of said intermediate substrate;

said decoupling capacitor is mounted to said second surface of said third substrate; and

the thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of said topographic contact extending from said second surface of said third substrate to said first surface of said intermediate substrate, said respective thickness dimensions of said decoupling capacitor and said topographic contact being oriented perpendicular to said first surface of said intermediate substrate.

51. (original) A multiple die semiconductor assembly as claimed in claim 50 wherein the thickness dimension of said decoupling capacitor and a thickness dimension of said first semiconductor die are both accommodated in said space defined by the thickness dimension of said topographic contact extending from said second surface of said third substrate to said first surface of said intermediate substrate.

52. (canceled)

53. (previously presented) A multiple die semiconductor assembly as claimed in claim 7 wherein:

said assembly comprises a pair of decoupling capacitors mounted to said first surface of said intermediate substrate; and

said first semiconductor die is positioned between said pair of decoupling capacitors relative to said first surface of said intermediate substrate.

54. (previously presented) A multiple die semiconductor assembly as claimed in claim 2 wherein said intermediate substrate includes a network of conductive contacts formed thereon.

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55. (previously presented) A multiple die semiconductor assembly as claimed in claim 6 wherein said intermediate substrate includes a network of conductive contacts formed thereon.

56. (previously presented) A multiple die semiconductor assembly as claimed in claim 7 wherein said intermediate substrate includes a network of conductive contacts formed thereon.

57. (currently amended) A multiple die semiconductor assembly comprising:

a first semiconductor die defining a first active surface, said first active surface including at least one conductive bond pad;

a second semiconductor die defining a second active surface, said second active surface including at least one conductive bond pad;

an intermediate substrate positioned between said first semiconductor die and said second semiconductor die such that a first surface of said intermediate substrate faces said first semiconductor die and such that a second surface of said intermediate substrate faces said second semiconductor die, wherein ~~said intermediate substrate defines a passage there through and includes, and one of said first semiconductor die and said second semiconductor die is positioned such that said conductive bond pad on one of said first and second active surfaces is aligned with said passage; and~~

said intermediate substrate defines a passage there through and includes a network of conductive contacts formed thereon, and

one of said first semiconductor die and said second semiconductor die is positioned such that said conductive bond pad on one of said first and second active surfaces is aligned with said passage; and

at least one decoupling capacitor conductively coupled to at least one of said first and second semiconductor dies, wherein a thickness dimension of said decoupling capacitor is accommodated in a space defined by a thickness dimension of a topographic contact extending between said first surface of said intermediate substrate and said first active surface of said first semiconductor die, wherein said respective thickness dimensions of said decoupling capacitor and said topographic contact are oriented perpendicular to said first surface of said intermediate substrate.

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58. (withdrawn - previously presented) A multiple die semiconductor assembly as claimed in claim 2 further comprising a heat sink comprising a cap portion and a peripheral portion, wherein:

said cap portion is thermally coupled to a major surface of at least one of said first and second semiconductor dies; and

said peripheral portion engages a mounting zone defined by a lateral dimension of said intermediate substrate extending beyond a periphery of at least one of said first and second semiconductor dies.

59. (canceled)

60. (withdrawn - previously presented) A multiple die semiconductor assembly as claimed in claim 6 further comprising a heat sink comprising a cap portion and a peripheral portion, wherein:

said cap portion is thermally coupled to a major surface of at least one of said first and second semiconductor dies; and

said peripheral portion engages a mounting zone defined by a lateral dimension of said intermediate substrate extending beyond a periphery of at least one of said first and second semiconductor dies.

61. (withdrawn - previously presented) A multiple die semiconductor assembly as claimed in claim 7 further comprising a heat sink comprising a cap portion and a peripheral portion, wherein:

said cap portion is thermally coupled to a major surface of at least one of said first and second semiconductor dies; and

said peripheral portion engages a mounting zone defined by a lateral dimension of said intermediate substrate extending beyond a periphery of at least one of said first and second semiconductor dies.

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62. (withdrawn - previously presented) A multiple die semiconductor assembly as claimed in claim 8 further comprising a heat sink comprising a cap portion and a peripheral portion, wherein:

said cap portion is thermally coupled to a major surface of at least one of said first and second semiconductor dies; and

said peripheral portion engages a mounting zone defined by a lateral dimension of said intermediate substrate extending beyond a periphery of at least one of said first and second semiconductor dies.